

SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLICANT: D. Katz
M. Gentile-Davey
M. Cornwell
J. Huff
J. Yu
 - (ii) TITLE OF INVENTION: **AMPLIFICATION BASED POLYMORPHISM DETECTION**
 - (iii) NUMBER OF SEQUENCES: 18
 - (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Abbott Laboratories
 - (B) STREET: 100 Abbott Park Road
 - (C) CITY: Abbott Park
 - (D) STATE: Illinois
 - (E) COUNTRY: USA
 - (F) ZIP: 60064-3500
 - (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: Macintosh
 - (C) OPERATING SYSTEM: System 7.0.1
 - (D) SOFTWARE: Microsoft Word 5.1a
 - (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER:
 - (B) FILING DATE:
 - (C) CLASSIFICATION:
 - (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Paul D. Yasger
 - (B) REGISTRATION NUMBER: 37,477
 - (C) DOCKET NUMBER:
 - (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: 847/937-2341
 - (B) TELEFAX: 847/938-2623
 - (C) TELEX:
- (2) INFORMATION FOR SEQ ID NO:1:
- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1450 bases
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: genomic DNA (wild type)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

TAGGGTTGGA	GTGGGTGGTG	GATGGTGGGG	CTAATGCCTT	CATGGCCACG	50
CGCACGTGCC	CGTCCCACCC	CCAGGGGTGT	TCCTGGCGCG	CTATGGGCCC	100
GCGTGGCGCG	AGCAGAGGCG	CTTCTCCGTG	TCCACCTTGC	GCAACTTGGG	150
CCTGGGCAAG	AAGTCGCTGG	AGCAGTGGGT	GACCGAGGAG	GCCGCCTGCC	200
TTTGTGCCGC	CTTCGCCAAC	CACTCCGGTG	GGTGATGGGC	AGAAGGGCAC	250
AAAGCGGGAA	CTGGGAAGGC	GGGGGACGGG	GAAGGCGACC	CCTTACCCGC	300
ATCTCCCACC	CCCAGGACGC	CCCTTTCGCC	CCAACGGTCT	CTTGGACAAA	350
GCCGTGAGCA	ACGTGATCGC	CTCCCTCACC	TGCGGGCGCC	GCTTCGAGTA	400
CGACGACCTT	CGCTTCCTCA	GGCTGCTGGA	CCTAGCTCAG	GAGGGACTGA	450
AGGAGGAGTC	GGGCTTTCTG	CGCGAGGTGC	GGAGCGAGAG	ACCGAGGAGT	500
CTCTGCAGGG	CGAGCTCCCG	AGAGGTGCCG	GGGCTGGACT	GGGGCCTCGG	550
AAGAGCAGGA	TTTGATAGA	TGGGTTTGGG	AAAGGACATT	CCAGGAGACC	600
CCACTGTAAG	AAGGGCCTGG	AGGAGGAGGG	GACATCTCAG	ACATGGTCGT	650
GGGAGAGGTG	TGCCCCGGTC	AGGGGGCACC	AGGAGAGGCC	AAGGACTCTG	700
TACCTCCTAT	CCACGTCAGA	GATTTTCGATT	TTAGGTTTCT	CCTCTGGGCA	750
AGGAGAGAGG	GTGGAGGCTG	GCACTTGGGG	AGGGAAGTGG	TGAGGTCAGT	800
GGTAAGGACA	GGCAGGCCCT	GGGTCTACCT	GGAGATGGCT	GGGGCCTGAG	850
ACTTGTCCAG	GTGAACGCAG	AGCACAGGAG	GGATTGAGAC	CCCGTTCTGT	900
CTGGTGTAGG	TGCTGAATGC	TGTCCCCGTC	CTCCTGCATA	TCCCAGCGCT	950
GGCTGGCAAG	GTCCTACGCT	TCCAAAAGGC	TTTCCTGACC	CAGCTGGATG	1000
AGCTGCTAAC	TGAGCACAGG	ATGACCTGGG	ACCCAGCCCA	GCCCCCCCCGA	1050
GACCTGACTG	AGGCCTTCCT	GGCAGAGATG	GAGAAGGTGA	GAGTGGCTGC	1100
CACGGTGGGG	GGCAAGGGTG	GTGGGTTGAG	CGTCCCAGGA	GGAATGAGGG	1150
GAGGCTGGGC	AAAAGGTTGG	ACCAAGTGCAT	CACCCGGCGA	GCCGCATCTG	1200
GGCTGACAGG	TGCAGAATTG	GAGGTCATTT	GGGGGCTACC	CCGTCTGTCT	1250
CCGAGTATGC	TCTCGGCCCT	GCTCAGGCCA	AGGGGAACCC	TGAGAGCAGC	1300
TTCAATGATG	AGAACCTGCG	CATAGTGGTG	GCTGACCTGT	TCTCTGCCGG	1350
GATGGTGACC	ACCTCGACCA	CGCTGGCCTG	GGGCCTCCTG	CTCATGATCC	1400
TACATCCGGA	TGTGCAGCGT	GAGCCCATCT	GGGAAACAGT	GCAGGGGCCG	1450

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: synthetic DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

TGAGACTTGT CCAGGTGAAC

20

(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 18 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: synthetic DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

CCTGCACTGT TTCCAGA

18

- (2) INFORMATION FOR SEQ ID NO: 4:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 18
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULE TYPE: synthetic DNA

 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

GTGGATGGTG GGGCTAAT

18

- (2) INFORMATION FOR SEQ ID NO:5:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 18 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULE TYPE: synthetic DNA

 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

CTCCTCGGTC TCTCGCTC

18

- (2) INFORMATION FOR SEQ ID NO:6:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 13 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULE TYPE: synthetic DNA

 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

AACCTGCGCA TAG

13

- (2) INFORMATION FOR SEQ ID NO:7:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 13 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULE TYPE: synthetic DNA

 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

AACCTGTGCA TAG

13

- (2) INFORMATION FOR SEQ ID NO:8:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 13 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULE TYPE: synthetic DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

GAGCACAGGA TGA

13

(2) INFORMATION FOR SEQ ID NO:9:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 13 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: synthetic DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

GAGCACGGAT GAC

13

(2) INFORMATION FOR SEQ ID NO:10:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: synthetic DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

GATGGAGAAG GTGA

14

(2) INFORMATION FOR SEQ ID NO:11:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: synthetic DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

GATGGAGGTG AGAG

14

(2) INFORMATION FOR SEQ ID NO:12:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 13 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: synthetic DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

CCCCAGGACG CCC

13

(2) INFORMATION FOR SEQ ID NO:13:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 13 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: synthetic DNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

CCCCAAGACG CCC

13

- (2) INFORMATION FOR SEQ ID NO:14:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 14 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: synthetic DNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

GAGCAGTGGG TGAC

14

- (2) INFORMATION FOR SEQ ID NO:15:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 14 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: synthetic DNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

GAGCAGGGGT GACC

14

- (2) INFORMATION FOR SEQ ID NO:16:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 11 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: synthetic DNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:

ACCTGTGCAT A

11

- (2) INFORMATION FOR SEQ ID NO:17:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: synthetic DNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:

GAACCTGTGC ATAGT

15

- (2) INFORMATION FOR SEQ ID NO:18:
- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 17 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: synthetic DNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

AGAACCTGTG CATAGTG

17

- (2) INFORMATION FOR SEQ ID NO:19:
- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 21 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: synthetic DNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

CCCCAAAACG GAAGACAAAT C

21

- (2) INFORMATION FOR SEQ ID NO:20:
- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: synthetic DNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:

TCCCGCACAC GCCTC

15

- (2) INFORMATION FOR SEQ ID NO:21:
- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 20 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: synthetic DNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:

TGCGAACTC GTCAGTGGTC

20

- (2) INFORMATION FOR SEQ ID NO:22:
- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 35 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: synthetic DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:

CCGCACACAG GACTGGCTAC CTCTCTGGGC TGC GG

35

(2) INFORMATION FOR SEQ ID NO:23:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 31 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: synthetic DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:

CGACCACAGG ACTGGCCACC TCTCTGGGTC G

31